# Shaopeng Yang

List of Publications by Year
in descending order



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|---|---|---|---|
| 34 papers | 499 citations | 687363 13 h-index | 713466 21 g-index |
| 34 all docs | 34 docs citations | 34 times ranked | 825 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | F-Type Pseudo-Halide Anions for High-Efficiency and Stable Wide-Band-Gap Inverted Perovskite Solar Cells with Fill Factor Exceeding 84%. ACS Nano, 2022, 16, 10798-10810. | 14.6 | 45 |
| 2 | Organic Monomolecular Layers Enable Energy-Level Matching for Efficient Hole Transporting Layer Free Inverted Perovskite Solar Cells. ACS Nano, 2019, 13, 1625-1634. | 14.6 | 41 |
| 3 | Functionalized SnO2 films by using EDTA-2ÂM for high efficiency perovskite solar cells with efficiency over 23%. Chemical Engineering Journal, 2022, 430, 132683. | 12.7 | 38 |
| 4 | High-Efficiency and Stable Organic Solar Cells Enabled by Dual Cathode Buffer Layers. ACS Applied Materials & Interfaces, 2018, 10, 5682-5692. | 8.0 | 36 |
| 5 | Progress in perylene diimides for organic solar cell applications. RSC Advances, 2022, 12, 6966-6973. | 3.6 | 33 |
| 6 | Efficiency enhancement in planar CH 3 NH 3 PbI 3â^'x Cl x perovskite solar cells by processing with bidentate halogenated additives. Solar Energy Materials and Solar Cells, 2017, 165, 36-44. | 6.2 | 32 |
| 7 | Enhanced efficiency in perovskite solar cells by eliminating the electron contact barrier between the metal electrode and electron transport layer. Journal of Materials Chemistry A, 2019, 7, 1349-1355. | 10.3 | 32 |
| 8 | 18.0% efficiency flexible perovskite solar cells based on double hole transport layers and CH<sub>3</sub>NH<sub>3</sub>PbI<sub>3â^'x</sub>Cl<sub>x</sub> with dual additives. Journal of Materials Chemistry C, 2018, 6, 8770-8777. | 5.5 | 28 |
| 9 | Simultaneous enhancement of short-circuit current density, open circuit voltage and fill factor in ternary organic solar cells based on PTB7-Th:IT-M:PC71BM. Solar Energy Materials and Solar Cells, 2018, 182, 45-51. | 6.2 | 24 |
| 10 | A facile strategy for enhanced performance of inverted organic solar cells based on low-temperature solution-processed SnO2 electron transport layer. Organic Electronics, 2020, 78, 105555. | 2.6 | 23 |
| 11 | Enhanced performance of polymer solar cells based on PTB7-Th:PC<sub>71</sub>BM by doping with 1-bromo-4-nitrobenzene. Journal of Materials Chemistry C, 2017, 5, 10985-10990. | 5.5 | 19 |
| 12 | Wide Band Gap and Highly Conjugated Copolymers Incorporating 2-(Triisopropylsilylethynyl)thiophene-Substituted Benzodithiophene for Efficient Non-Fullerene Organic Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 28828-28837. | 8.0 | 18 |
| 13 | Additive Engineering for Efficient and Stable MAPbI<sub>3</sub>-Perovskite Solar Cells with an Efficiency of over 21%. ACS Applied Materials & Interfaces, 2021, 13, 44451-44459. | 8.0 | 18 |
| 14 | Facile Physical Modifications of Polymer Hole Transporting Layers for Efficient and Reproducible Perovskite Solar Cells with Fill Factor Exceeding 80%. Solar Rrl, 2020, 4, 2000365. | 5.8 | 13 |
| 15 | Improved Morphology and Interfacial Contact of PBDB-T:N2200-Based All-Polymer Solar Cells by Using the Solvent Additive p-Anisaldehyde. ACS Applied Energy Materials, 2020, 3, 358-365. | 5.1 | 11 |
| 16 | A facile strategy to adjust SnO<sub>2</sub>/perovskite interfacial properties for high-efficiency perovskite solar cells. Journal of Materials Chemistry C, 2022, 10, 8414-8421. | 5.5 | 11 |
| 17 | Multifunctional molecular incorporation boosting the efficiency and stability of the inverted perovskite solar cells. Journal of Power Sources, 2021, 488, 229449. | 7.8 | 10 |
| 18 | Incorporating Trialkylsilylethynyl-Substituted Head-to-Head Bithiophene Unit into Copolymers for Efficient Non-Fullerene Organic Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 7271-7280. | 8.0 | 9 |

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|---|---|---|---|
| 19 | Broadening the light absorption range via PBDB-T to improve the power conversion efficiency in ternary organic solar cells. Organic Electronics, 2020, 78, 105587. | 2.6 | 9 |
| 20 | High performance ternary organic solar cells using two miscible donor molecules based on PTB7-Th and DR3TBDTT. Organic Electronics, 2017, 41, 209-214. | 2.6 | 7 |
| 21 | Formation of charge-transfer complexes significantly improves the performance of polymer solar cells based on PBDTTT-C-T: PC71 BM. Progress in Photovoltaics: Research and Applications, 2015, 23, 783-792. | 8.1 | 6 |
| 22 | Precursor formula engineering enabling high quality solution processed C60 films for efficient and stable inverted perovskite solar cells. Chemical Engineering Journal, 2022, 446, 136897. | 12.7 | 6 |
| 23 | Formation of charge transfer complexes significantly improves the electron transfer process of polymer solar cells. Organic Electronics, 2015, 18, 70-76. | 2.6 | 5 |
| 24 | Tailoring the second acceptor unit in easily synthesized ternary copolymers toward efficient non-fullerene polymer solar cells. Dyes and Pigments, 2018, 148, 72-80. | 3.7 | 5 |
| 25 | Enhancing the Efficiency of Polymer Solar Cells by Modifying Buffer Layer with N,N-Dimethylacetamide. International Journal of Photoenergy, 2014, 2014, 1-6. | 2.5 | 4 |
| 26 | Enhancing the power conversion efficiency of PCDTBT:PC71BM polymer solar cells using a mixture of solvents. Science Bulletin, 2014, 59, 297-300. | 1.7 | 4 |
| 27 | Effect of IT-M doping on charge transfer and ultrafast carrier dynamics of ternary organic solar cell materials. Journal Physics D: Applied Physics, 2020, 53, 095103. | 2.8 | 4 |
| 28 | High-Efficiency and Stable Organic Solar Cells with Stacked LiF and Organic Electrolytes as Cathode Interface Layers. ACS Applied Energy Materials, 2021, 4, 4489-4497. | 5.1 | 4 |
| 29 | Improving the efficiency of organic photovoltaic cells by introducing an ultrathin modification layer with a strong dipole moment. Science Bulletin, 2012, 57, 1655-1658. | 1.7 | 3 |
| 30 | Back-Contact Ionic Compound Engineering Boosting the Efficiency and Stability of Blade-Coated Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2022, 14, 34040-34048. | 8.0 | 1 |
| 31 | The trapping effect of sulfur sensitization center Ag2S cluster on T-grain AgBrI microcrystals. Science in China Series G: Physics, Mechanics and Astronomy, 2004, 47, 744-751. | 0.2 | 0 |
| 32 | Study on time-resolved fluorescence dynamics of cyanine dye sensitizing AgBr. Science in China Series G: Physics, Mechanics and Astronomy, 2008, 51, 243-250. | 0.2 | 0 |
| 33 | Super-sensitization mechanism of T-Grain AgBrI emulsion sensitized by an anionicâ"cationic cyanine dye. Materials Letters, 2008, 62, 2434-2437. | 2.6 | 0 |
| 34 | Semitransparent Polymer Solar Cells Based on Liquid Crystal Reflectors. International Journal of Photoenergy, 2014, 2014, 1-5. | 2.5 | 0 |